

## Records of Hawaiian Dermaptera and Orthoptera of the Family Gryllidae.

BY MORGAN HEBARD  
Philadelphia, Pa.

(Presented by E. H. Bryan, Jr., at the meeting of  
December 3, 1925.)

Material, secured subsequent to our studies in Hawaiian Dermaptera and Orthoptera, has recently been received from the Bernice Pauahi Bishop Museum. One species previously unknown from the Islands is represented, as well as several of the scarcer forms, in the series of 114 specimens here recorded.

### DERMAPTERA.

#### LABIDURIDAE.

##### PSALINAE.

#### *Anisolabis eteronoma* (Borelli).

Waiohinu, Kau, Hawaii, VIII, 4, 1923 (W. H. Meinecke),  
1 ♂, 2 ♀. Honaunau, Hawaii, VI, 22, 1922 (J. F. Illingworth),  
1 ♂.

#### *Anisolabis perkinsi* Burr.

Kauai, 2000 to 4000 feet, III, 1919 (J. A. Kutsche), 1 ♂, 3 ♀,  
2 juv. ♀. Olokele Canyon, Kauai, II, 1919 (J. A. Kutsche),  
1 ♀. Kaholuamano, Kauai, IV, 1920 (J. A. Kutsche), 1 ♂.

#### *Euborellia annulipes* (Lucas).

Kilauea, Hawaii, VIII, 22 (B. Clarke), 1 ♀. Hawi, Hawaii,  
VI, 22, 1922 (M. C. Neal; near shore), 1 ♂. Hilo, Hawaii, VI,  
22, 1922 (J. F. Illingworth), 1 juv. ♀. Moanalua, Oahu, IV, 9,  
1922 (E. H. Bryan, Jr.), 2 ♀. Honolulu, Oahu, IX, 1923, 1 juv.  
Waianae Mountains, Oahu (J. F. Illingworth), 3 ♀. Mount  
Tantalus, Oahu, IX, 7, 1923 (S. C. Ball), 1 ♀. Nuuanu, Oahu,  
VIII, 27 and IX, 15, 1922 (S. Bickerton), 1 ♂, 1 ♀. Waialae  
Beach, Oahu, X, 16, 1922 (J. F. Illingworth), 1 ♀. Kalihi, Oahu,

VIII, 18, 1923 (O. E. Cheatam), 1 ♀. Wawamalu Beach, near Koko Crater, Oahu, XII, 17, 1922 (E. H. Bryan, Jr.), 1 ♂, 2 ♀. Koko Head, Oahu, XII, 10, 1922 (J. F. Illingworth), 3 ♂, 2 ♀. Kailua, Maui, VI, 19, 1920 (E. H. Bryan, Jr.), 1 ♀. Keanae, Maui, VII, 4, 1920 (E. H. Bryan, Jr.), 2 ♀. Kokee, Kauai, I, 1919 (J. A. Kusche), 2 ♀. Kauai, 2000 to 4000 feet, II and III, 1919 (J. A. Kusche), 2 ♂, 3 ♀, 1 juv. ♀.

#### LABIIDAE.

#### LABIINAE.

##### *Sphingolabis hawaiiensis* (Bormans).

Hilo, Hawaii, VI, 22, 1922 (J. F. Illingworth), 2 ♂, 1 ♀. Moanalua, Oahu, IV, 9, 1922 (O. H. Swezey), 2 ♂. Waialae Iki, Oahu, III, 21, 1920 (E. H. Bryan, Jr.), 1 ♀. Honolulu, Oahu (J. F. Illingworth), 1 ♀. Honopu, Kauai, VI, 20, 1922 (E. H. Bryan, Jr.; from a dead goat), 1 ♂, 1 ♀.

##### *Labia pilicornis* (Motschulsky).

Kealakekua, Hawaii, VIII, 12, 1919 (O. H. Swezey), 1 ♀.

##### *Labia dubronyi* Hebard.

Kuliouou, Oahu, XII, 22, 1918 (O. H. Swezey), 1 ♀. Palolo, Oahu, II, 26, 1922 (O. H. Swezey; from rotten *Charpentiera*), 1 ♀. Makaleha, north slopes Mount Kaala, Oahu, I, 8, 1922 (O. H. Swezey), 1 ♂. Kaumuahona, Oahu, XI, 17, 1918 (O. H. Swezey), 3 ♀. Olokele Canyon, Kauai, II, 1919 (J. A. Kusche), 1 ♂. Halehaku, Maui, VI, 16, 1920 (E. H. Bryan, Jr.), 1 ♂.

#### CHELISOCHIDAE.

#### CHELISOCHINAE.

##### *Chelisoches morio* (Fabricius).

Honolulu, Oahu, VI, 1919 (J. F. G. Stokes), 1 ♂, 1 ♀. Kalihi Pali, Oahu, IX, 18, 1921 (E. H. Bryan, Jr.), 1 juv. Sacred Falls, Oahu, I, 22, 1922 (E. H. Bryan, Jr.), 1 ♂. Moanalua, Oahu, X, 21, 1922 (E. H. Bryan, Jr.), 1 ♀, 3 juv.

## ORTHOPTERA.

## GRYLLIDAE.

## TRIGONIDIINAE.

*Paratrigonidium gracile* Perkins.

South Kona, Hawaii, VIII, 8, 1919 (O. H. Swezey), 1 ♂, 1 ♀.

*Paratrigonidium varians* Perkins.

South Kona, Hawaii, VIII, 8, 1919 (O. H. Swezey), 1 ♀. Makaleha, north slopes Mount Kaala, Oahu, I, 8, 1922 (O. H. Swezey), 1 ♀. Mount Olympus, Oahu (O. H. Swezey), 1 ♂, 2 ♀. Kaumuahona, Oahu, XI, 23, 1919 (O. H. Swezey), 2 ♀. Halehaku, Maui, VI, 16 and 24, 1920 (E. H. Bryan, Jr.), 1 ♂, 1 ♀. Wailuanui, Maui, VII, 2, 1920 (E. H. Bryan, Jr.), 1 ♀.

*Paratrigonidium saltator* Perkins.

Lanihuli, Oahu, V, 25, 1918 and XI, 24, 1919 (O. H. Swezey), 1 ♂, 1 ♀. Waialae Iki, Oahu, III, 21, 1920 (O. H. Swezey), 1 ♀.

*Paratrigonidium pacificum* (Scudder).

South Kona, Hawaii, VIII, 8, 1919 (O. H. Swezey), 3 ♀. Judd Trail, Hawaii, VIII, 14, 1919 (O. H. Swezey), 1 ♀. Mount Kaala, western side, Oahu, VI, 1, 1918 (O. H. Swezey), 1 ♂. Iao Valley, Maui, VIII, 8, 1918 (O. H. Swezey), 2 ♀.

## E NEOPTERINAE.

*Prognathogryllus robustus* Perkins.

Kaholuamano, Kauai, IV, 1920 (J. A. Kutsche), 2 ♂.

*Prognathogryllus alatus* Brunner.

Kuliouou, Oahu, XII, 22, 1918 (O. H. Swezey), 1 juv. ♂, 1 juv. ♀.

**Prognathogryllus oahuensis** Perkins.

Lanihuli, Oahu, XI, 24, 1918 (O. H. Swezey), 1 ♀. Kailua, Maui, VI, 18, 1920 (E. H. Bryan, Jr.; from dead twig of *Coprosma*), 1 ♂.

We are satisfied that of the four species described by Perkins<sup>1</sup> but two are valid. Examination of the types is, however, necessary to determine whether the synonyms are referable to *alatus* or to the insect we have recognized as *oahuensis*.<sup>2</sup>

Mount Kaala, Oahu, II, 18, 1923 (O. H. Swezey; on *Gunnera*), 2 ♂. Mount Konahuanui, Oahu, II, 23, 1919 (O. H. Swezey), 1 ♂. Kaholuamano, Kauai, IV, 1920 (J. A. Kusche), 1 ♀. Kaiwiki, Hawaii, IX, 12, 1918 (O. H. Swezey), 2 ♂, 1 ♀.

**Leptogryllus nigrolineatus** Perkins.

Waialae Iki, Oahu, XII, 17, 1922 (W. H. Meinecke), 1 ♀. Kaumuahona, Oahu, XI, 17, 1918 (O. H. Swezey), 1 ♀. Manoa Valley, Oahu, X, 15, 1919 (E. H. Bryan, Jr.), 2 ♀.

The eleven specimens of *Leptogryllus* here recorded further strengthen our belief that only a few variable species can be recognized, rather than many forms, as Perkins supposed.

## MYRMECOPHILINAE.

**Myrmecophila americana** Saussure.

1877. *Myrmecophilus americanus* Saussure, Mel. Orth., Fasc. V, p. 461. [♀, Colombia.]

Honolulu, Oahu, Bishop Museum Building, I, 17, 1924 (O. H. Swezey and E. H. Bryan, Jr.), 1 ♂, 3 ♀. The ant host of this series is *Prenolepis longicornis* Latr.

This minute dark species, with a broad whitish transverse bar on the mesonotum, was originally described from Colombia. Later it has been reported from Pará, Brazil, and from Bombay, Khandala and Wallon, India.<sup>3</sup> The Asiatic series were described as *M. prenolepidis* by Wasmann, a name which has been synony-

<sup>1</sup> Fauna Hawiienensis, II, p. 25 (1899).

<sup>2</sup> Occasional Papers, B. P. Bishop Museum, VII, p. 368 (1922).

<sup>3</sup> Schimmer, Zeitschr. für Wissensch. Zool., XCIII, p. 427 (1909).

mized by Schimmer. Some of the North African forms of this genus which have been described are extremely close, indicating the possibility of further synonymy.

This is the first Hawaiian record for the present minute but widespread myrmecophilous cricket.